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Sheet 1 of 5

FORM PTO-1449
(REV. 6-89)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney's Docket No.

5382

Serial No.

09/672,237

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant

William R. Caid et al.

Filing Date

September 27, 2000

Group Art Unit

2422 2631

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
KB	A	4,959,870	09/25/90	Tachikawa	382	56	May 23, 1988
AB	B	5,005,206	04/02/91	Naillon et al.	382	56	Nov. 20, 1989
AB	C	5,161,204	11/03/92	Hutcheson et al.	382	16	June 4, 1990
AB	D	5,239,594	08/24/93	Yoda	382	15	Feb. 6, 1992
AB	E	5,263,097	11/16/93	Katz et al.	382	48	July 24, 1991
AB	F	5,274,714	12/28/93	Hutcheson et al.	382	15	July 23, 1992
AB	G	5,287,275	02/15/94	Kimura	364	419.01	Aug. 14, 1989
AB	H	5,313,534	05/17/94	Burel	382	56	Aug. 25, 1992
AB	I	5,317,507	05/31/94	Gallant	364	419.13	Nov. 7, 1990
AB	J	5,325,298	06/28/94	Gallant	364	419.19	Sept. 3, 1991
AB	K	5,465,308	11/07/95	Hutcheson et al.	382	159	Aug. 25, 1993

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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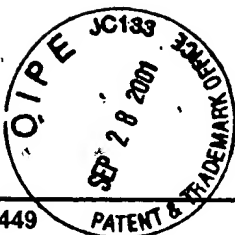
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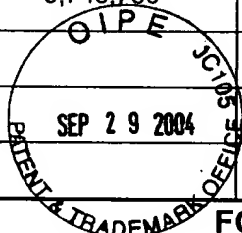
September 27, 2000

Group Art Unit

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U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AB	L	5,468,069	11/21/95	Prasanna et al.	382	253	Aug. 3, 1993
AB	M	5,579,471	11/26/96	Barber et al.	395	326	Mar. 23, 1994
AB	N	5,596,659	01/21/97	Normile et al.	382	253	Sep. 1, 1992
AB	O	5,602,589	02/11/97	Vishwanath et al.	348	398	Aug. 19, 1994
AB	P	5,619,709	04/08/97	Caid et al.	395	794	Nov. 21, 1995
AB	Q	5,647,058	07/08/97	Agrawal et al.	395	601	Feb. 28, 1996
AB	R	5,748,786	05/05/98	Zandi et al.	382	240	Sep. 21, 1994



FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
							RECEIVED OCT 04 2001 Technology Center 2600	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

S	Antonini, M. et al., "Image Coding Using Wavelet Transform," Image Processing, IEEE Transactions, April 1992, Vol. 1, Issue 2, CNRS, Univ. de Nice-Sophia Antipolis, Valbonne, France. 18 pages
T	Petilli, Stephen G., "Image Compression With Full Wavelet Transform (FWT) and Vector Quantization," Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, IEEE 1993, pages 906-910
U	Martens, R.L.J., et al., "Coding of Image Textures Using Wavelet Decomposition and Hierarchical Multirate Vector Quantization," Dept. of Electronic Engineering, Toronto University, Ontario Canada, appears in Time-Frequency and Time-Scale Analysis, 1992, Proceedings of the IEEE-SP International Symposium, pages 101-104
V	A. Yamamoto, et al., "Extraction of Object Features and Its Application to Image Retrieval," Trans. Of IEICE, Vol. E72, No. 6, pp. 771-781, June 1989

EXAMINER

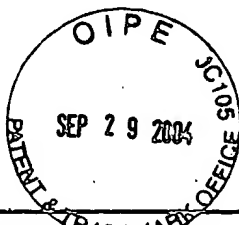
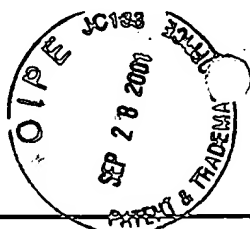
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INFORMATION DISCLOSURE CITATION

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Filing Date

September 27, 2000

Group Art Unit

2122 2631

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

W	Rickman, R.M. et al., "Image Retrieval From Large Databases Using A Neural Network Coding Scheme," Dept. Electrical & Electronic Engineering, Brunel University, Uxbridge, Middx. UB8 3PH.; Aslib Informatics Group and the Information Retrieval Specialist Group of the British Computer Society, The University of Michigan Libraries; pages 147-159
X	Denk, Tracy, et al., "Combining Neural Networks And the Wavelet Transform For Image Compression," Dept. of Electrical Engineering, University of Minnesota, Minneapolis, MN; 1993 IEEE; Pages 1-637 to 1-640
Y	Rickman, Rick, et al., "Similarity Retrieval From Image Databases - Neural Networks can deliver"; Neural Networks and Pattern Recognition Group, Department of Electrical and Electronic Engineering, Brunel University, Uxbridge, Middx UB8 3PH, U.K., SPIE Vol. 1908 (1993); pages 85-94
Z	Faloutsos, C., et al., "Efficient and Effective Querying by Image Content," Journal of Intelligent Information Systems, Vol. 3, No. 3/4, July 1994, pages 231-262
AA	Ireton, M.A., et al., "Classification of Shape For Content Retrieval of Images In A Multimedia Database," Digital Processing of Signals in Communications, 1991 (IEE Conf. Pub. 340) University of Manchester, 7 pages
BB	Bach, Jeffrey R., et al., "A Visual Information Management System for the Interactive Retrieval of Faces," Transactions on Knowledge and Data Engineering, Vol. 5, No. 4, August 1993, pages 619-628
CC	Mehrota, Rajiv, et al., "Feature-Based Retrieval of Similar Shapes," Department of Computer Science, University of Kentucky, Lexington, Kentucky, Data Engineering, 1993, pages 108-115
DD	Shann, R., et al., "Detection of Circular Arcs for Content-Based Retrieval from an Image Database," IEE Proceedings - Vision, Image and Signal, Vol. 141, Issue 1, February 1994, pages 49-55
EE	Gong, Yihong, et al., "An Image Database System with Content Capturing and Fast Image Indexing Abilities," Multimedia, 1994 International Conference, 1994, pages 121-130
FF	Del Bimbo, A., et al., "A Spatio-Temporal Logic for Image Sequence Coding and Retrieval," Visual Languages, 1992, pages 228-230
GG	Davcev, Danco, et al., "A Query-Based Mechanism for Geometrical Objects Retrieval in Multimedia Information System," System Sciences, Vol. III, 1994, pages 581-589
HH	Kato, Toshikazu, et al., "A Sketch Retrieval Method for Full Color Image Database," Pattern Recognition, Vol. I, 1992, pages 530-533
II	Herrmann, Per, et al., "Retrieval of Document Images Using Layout Knowledge," Document Analysis, 1993, pages 537-540
JJ	Grosky, William, et al., "Research Directions in Image Database Management," Data Engineering, 1992, pages 146-148
KK	Oda, Masaomi, et al., "What Kinds of Facial Features are Used in Face Retrieval," Robot and Human Communication, 1993, pages 265-270
LL	Hou, Tai-Yuan, et al., "Medical Image Retrieval by Spatial Features," Systems, Man and Cybernetics, 1992 International Conference, 1992, pages 1364-1369
MM	Del Bimbo, Albert, et al., "Sequence Retrieval by Contents through Spatio Temporal Indexing," Visual Languages, 1993 IEEE Symposium, pages 88-92
NN	Gallant, S.I., et al., "Image Retrieval Using Image Context Vectors," Proceedings of the SPIE, The International Society for Optical Engineering, Vol. 2368, 1995, pages 2-12
OO	Smoliar, Stephen W., et al., "Content-Based Video Indexing and Retrieval," IEEE Multimedia, Vol. 1, Issue 2, pages 62-72, 1994

EXAMINER

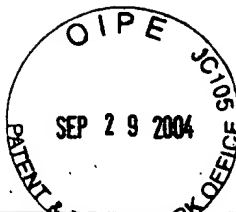
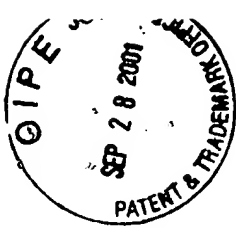
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FORM PTO-1449 (REV. 6-89) INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office		Attorney's Docket No. 5382	Serial No. 09/672,237
				Applicant William R. Caid et al.	
				Filing Date September 27, 2000	Group Art Unit 2422 2631

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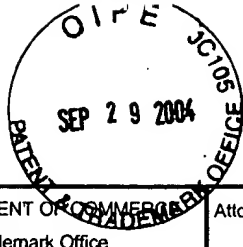
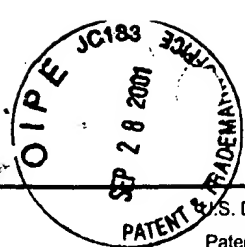
PP	Salton, G., et al., "A Vector Space Model for Automatic Indexing," Comm. Of the ACM, Vol. 18, November 1975
QQ	Sutcliffe, R.F.E., et al. "Distributed Representations in a Text Based Information Retrieval System: A New Way of Using the Vector Space Model," Proc. SIGIR '91 Conf., ACM, Chicago, IL October 1991
RR	Van Rijsbergen, C.J., "A Theoretical Basis for the Use of the Co-Occurrence Data in Information Retrieval," J. of Documentation, Vol. 33, pages 106-119, June 1977
SS	Wong, S.K.M., et al., "On Modeling of Information Retrieval Concepts in Vector Spaces," ACM Trans on Database Systems, Vol. 12, pages 299-321, 1987
TT	C.C. Chang, et al., "Retrieval of Similar Pictures on Pictorial Databases," Pattern Recognition, Vol. 24, No. 7, pp. 675-680, January 1991
UU	C.C. Chang, et al., "Retrieving the Most Similar Symbolic Pictures from Pictorial Databases," Information Processing & Management, Vol. 28, No. 5, pp. 581-588, January 1992
VV	S.K. Chang, et al., "Pictorial Data-Base Systems," IEEE Computer Magazine Special Issue on Pictorial Information Systems, pp. 13-21, November 1991
WW	S.K. Chang, et al., "Iconic Indexing by 2-D Strings," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. PAMI-9, No. 3, pp. 413-427, May 1987
XX	Egghe, L., "A New Method For Information Retrieval, Based On The Theory Of Relative Concentration," Proceedings of the 13th International Conference on Research and Development in Information Retrieval, September 5-7, 1990, pp. 469-493
YY	T. Gevers, et al., "Σigma: An Image Retrieval System," IEEE 11 TH IAPR International Conference on Pattern Recognition, pp. 697-700, 1992
ZZ	V.N. Gudivada, et al., "A Spatial Similarity Measure for Image Database Applications," Technical Report 91-1, Department of Computer Science, Jackson State University, Jackson Mississippi, pp. 1-12, April 1992
BA	K. Hirata, et al., "Query by Visual Example Content Based Image Retrieval," Advances In Database Technology, pp. 56-71, March 1992
BB	M. Ioka, "A Method of Defining the Similarity of Images on the Basis of Color Information," Bulletin of the National Museum of Ethnology Special, No 17, pp. 229-244, November 1992
BC	T. Kato, "Human Interface for Multimedia Database with Visual Interaction Facilities," Data Science, Classification and Related Methods, Proceedings of the Fifth Conference of the International Federation of Classification Societies, Kobe, Japan, March 27-30, 1996, Springer-Verlag, c1998
BD	T. Kato, et al., "TRADEMARK: Multimedia Image Database System with Intelligent Human Interface," Systems and Computers in Japan, Vol. 21, No. 11, pp. 33-46, 1990
BE	T. Kato, et al., "A Cognitive Approach to Visual Interaction," International Conference on Multimedia-Information Systems MIS '91, pp. 109-120, January 1991
BF	Kimoto, H., "Construction of a Dynamic Thesaurus and Its Use for Associated Information Retrieval," Proceedings of the 13th International Conference on Research and Development in Information Retrieval, September 5-7, 1990, pgs. 227-240

EXAMINER	<i>ppm</i>	DATE CONSIDERED	<i>6/18/04</i>
EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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INFORMATION DISCLOSURE CITATION

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Attorney's Docket No.

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William R. Caid et al.

Filing Date

September 27, 2000

Group Art Unit

2122 2631

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BG	P. Kofakis, et al., "Image Archiving by Content: An Object-Oriented Approach," SPIE Vol. 1234, Medical Imaging IV: PACS System Design and Evaluation, 1990
BH	Kwok, K.L., "A Neural Network for Probabilistic Information Retrieval," Proceedings of the Twelfth Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, June 25-28, 1989, pp. 21-30
BI	E.T. Lee, "Similarity Retrieval Techniques," Pictorial Information Systems, Springer Verlag, pp. 128-176, 1980
BJ	X. Lin, et al., "A Self-Organizing Semantic Map for Information Retrieval," Proceedings of the 14 th International ACM/SIGIR Conference on Research and Development in Information Retrieval, pp. 262-269, 1991
BK	Turtle, H., et al., "Inference Networks for Document Retrieval," Proceedings of the 13th International Conference on Research and Development in Information Retrieval, September 5-7, 1990, pp. 1-25

EXAMINER

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DATE CONSIDERED

6/18/04

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SEP 29 2004 PATENT & TRADEMARK OFFICE				Applicant SRIHARI ADIREDDY ET AL										
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	AN	PHA 23,838, FILED CONCURRENTLY HERewith 6,754,294												
	AO	US 00064, FILED CONCURRENTLY HERewith												
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